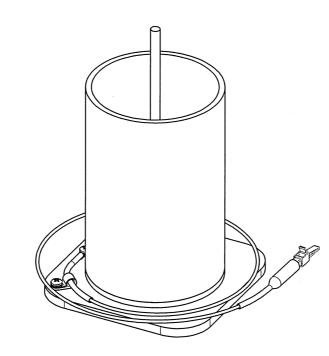
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	ITEM#	QTY	PART#	PART TITLE
	-3	1	RBE000-117-3	BASE PLATE
	-5	1	RBE000-117-5	ROD
-	-7	1	RBE000-117-7	TUBE
	-13	1	RBE000-117-13	PLATE ASSEMBLY
D	14	1	McMaster#9192K1 OR EQUIV.	14 WIRE GAUGE CONTINUOUS FLEX COPPER WIRE 35A CURRENT X 600V AC VOLTAGE
	15	1	McMaster#7113K12 OR EQUIV.	NYLON NONINSULATED RING TERMINAL FOR 16-14 WIRE GAUGE X #10 SCREW
	16	1	McMaster#7496K87 OR EQUIV.	PLASTIC HEAT SHRINK TUBING 0.38" ID. BEFORE HEATING X 1/2' LG.
	17	1	McMaster#8876T13 OR EQUIV.	NYLON PLASTIC LOOP CLAMP 1/4" ID. X 13/16" LG.
	18	1	McMaster#7132K517 OR EQUIV.	PLASTIC HEAT SHRINK TUBING 0.63" ID. BEFORE HEATING X 1/2' LG.
	19	2	McMaster#90272A826 OR EQUIV.	ZINC PLATED STEEL PAN HEAD SCREW #10-32 X 5/16" LG.
	20	2	McMaster#90273A559 OR EQUIV.	ZINC PLATED STEEL PHILLIPS FLAT HEAD SCREW 1/4"-28 X 3/4" LG. X 82° CSK.
	21	2	McMaster#98032A466 OR EQUIV.	CAD. PLATED STEEL WASHER 0.219" ID. X 0.365" OD. X 0.025"-0.040" THK.
	22	1	DIGI-KEY#314-1132-ND OR EQUIV.	STEEL INSULATED ALLIGATOR CLIP 30A CURRENT RATING
	23	1	DIGI-KEY#J146-ND OR EQUIV.	SOLDERLESS BANANA PLUG FOR STANDARD 4mm BANANA JACK
	24	1	AS568A-343	VITON O-RING 3-3/4" ID. X 4-1/8" OD. X 3/16" WD.



RBE000-117 FUEL SUMP DRAIN TOOL

1) MATERIAL: N/A

NOTES:

В

2) HEAT TREAT: N/A 3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1° X.XX = +/- 0.01" / +/- 0.5° X.XXX = +/- 0.005" / +/- 0.1°

X.XXXX = +/-0.0005" I +/-0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES UNLESS OTHÉRWISE NOTED

6) IDENTIFICATION: N/A 7) ASSEMBLE AS SHOWN

8) APPLY MOLYKOTE 55 OR EQUIVALENT ON ITEM 24 THEN ASSEMBLE WITH ITEM -13, AND REMOVE EXCESS 9) CUT ITEM 14 TO 12' ± 1"

10) CRIMP ITEM 14 WITH ITEMS 15 AND 23. THEN CONNECT ITEM 23 TO ITEM 22

11) HEAT ITEM 16 IN POSITION ALONG ITEMS 14 AND 15

12) HEAT ITEM 18 IN POSITION ALONG ITEMS 14, 22, AND 23

13) APPLY RED THREADLOCKER LOCTITE 263/262 ON THREADS OF ITEMS -5, 19, AND 20

THEN ASSEMBLE WITH ITEMS -3 AND -13, AND REMOVE EXCESS

14) THE TOOL ASSY MUST BE PACKAGED WITH A DESICCANT BAG INTO A TIGHT FITTING SEALED PLASTIC BAG

DESIG DRAW	DAKI ALKOSI ACE				
REV.	DESCRIPTION	ECN#	BY		
С	REPLACED ITEM -3 WITH ITEM -11 IN TOP LEVEL ASSEMBLY REPLACED ITEM -9 WITH ITEM -13 IN TOP LEVEL ASSEMBLY ITEM 15 WAS MCMASTER-CARR#7132K111 IS McMaster#7856K75 OR EQUIV. ITEM 16 WAS MCMASTER-CARR#7113K341 IS McMaster#8429T37 OR EQUIV. ITEM 18 WAS MUELLER ELECTRIC #BU-654-0 IS McMaster#7236K252 OR EQUIV. ITEM 18 WAS MUELLER ELECTRIC #BU-654-0 IS McMaster#7236K252 OR EQUIV3 DIM WAS M5 X .8 mm THRU IS TAP FOR M5 X 0.8 HELICOIL INSERT THRU. DIM WAS $\checkmark$ 0.516 X 82° IS $\checkmark$ 0.507 X 82.0° -5 DIM WAS 5/16-24 UNF IS 1/4-28 UNF. DIM WAS 0.355 IS 0.38. ADDED 0.31 AND MIN THREAD RELIEF DIMS, MATERIAL CHANGED FOR SS -7 DIM WAS $\checkmark$ 4.500 IS $\checkmark$ 4.50 REF. DIM WAS $\checkmark$ 4.125 IS $\checkmark$ 4.13 REF. ADDED COUNTERBORE HOLE $\checkmark$ 4.181+0.003/-0.000 $\checkmark$ 0.450 -9 MODIFIED O-RING GROOVE. DIM WAS $\checkmark$ 4.125 IS $\checkmark$ 4.178+0.000/-0.003. DIM WAS $\checkmark$ 3.725 IS $\checkmark$ 3.836+0.000/-0.008. DIM WAS 0.21 IS 0.28+0.01/-0.00. ADDED 0.08 DIM. DIM WAS 5/16-24 UNF X .44 IS TAP FOR 1/4-28 UNF HELICOIL INSERT $\checkmark$ 0.446. REMOVED 1/4-28 UNF X 7/16 DIM	19-634	КРТ		
	UPDATED DRAWING TEMPLATE  ADDED ITEMS -11 AND -13  REPLACED ITEM -3 WITH ITEM -11 IN TOP LEVEL ASSEMBLY				
D	-3 DIM WAS TAP FOR M5 X 0.8 HELICOIL INSERT THRU 2 PL IS #10-32 THRU 2 PL   -9 DIM WAS TAP FOR 1/4-28 HELICOIL INSERT $\Psi$ 0.446 3 PL IS 1/4-28 HELICOIL INSERT $\Psi$ 0.446. ADDED 1/4-28 $\Psi$ 0.460 2 PL DIM. DIM WAS $\phi$ 3.836+0.000/-0.008 IS $\phi$ 3.806+0.000/-0.008   -13 McMaster#91732A232 OR EQUIV. QUANTITY WAS 3 IS 1		КРТ		
	McMaster#9236A25 OR EQUIV. IS DIGI-REY#314-1132-ND OR EQUIV. McMaster#9464K173 OR EQUIV. IS AS568-343 McMaster#91166A240 OR EQUIV. IS McMaster#98032A466 OR EQUIV. McMaster#92005A318 OR EQUIV. IS McMaster#90272A826 OR EQUIV. ADDED DIGI-KEY#J146-ND OR EQUIV.  REPLACED ITEM -11 WITH -3  UPDATED NOTES	19-665			
	McMaster#7856K75 OR EQUIV. IS McMaster#7132K517 OR EQUIV. McMaster#8429T37 OR EQUIV. IS McMaster#7113K12 OR EQUIV. McMaster#7236K252 OR EQUIV. IS DIGI-KEY#314-1132-ND OR EQUIV.				
Ε	ADDED ITEM 16 McMaster#7496K87 OR EQUIV.	19-791	KPT		

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2019-07-03

CHECKED

MFG. APPR.

APPROVED

DATE

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**FUEL SUMP DRAIN TOOL** 

TOOL PART#

TITLE

RBE000-117

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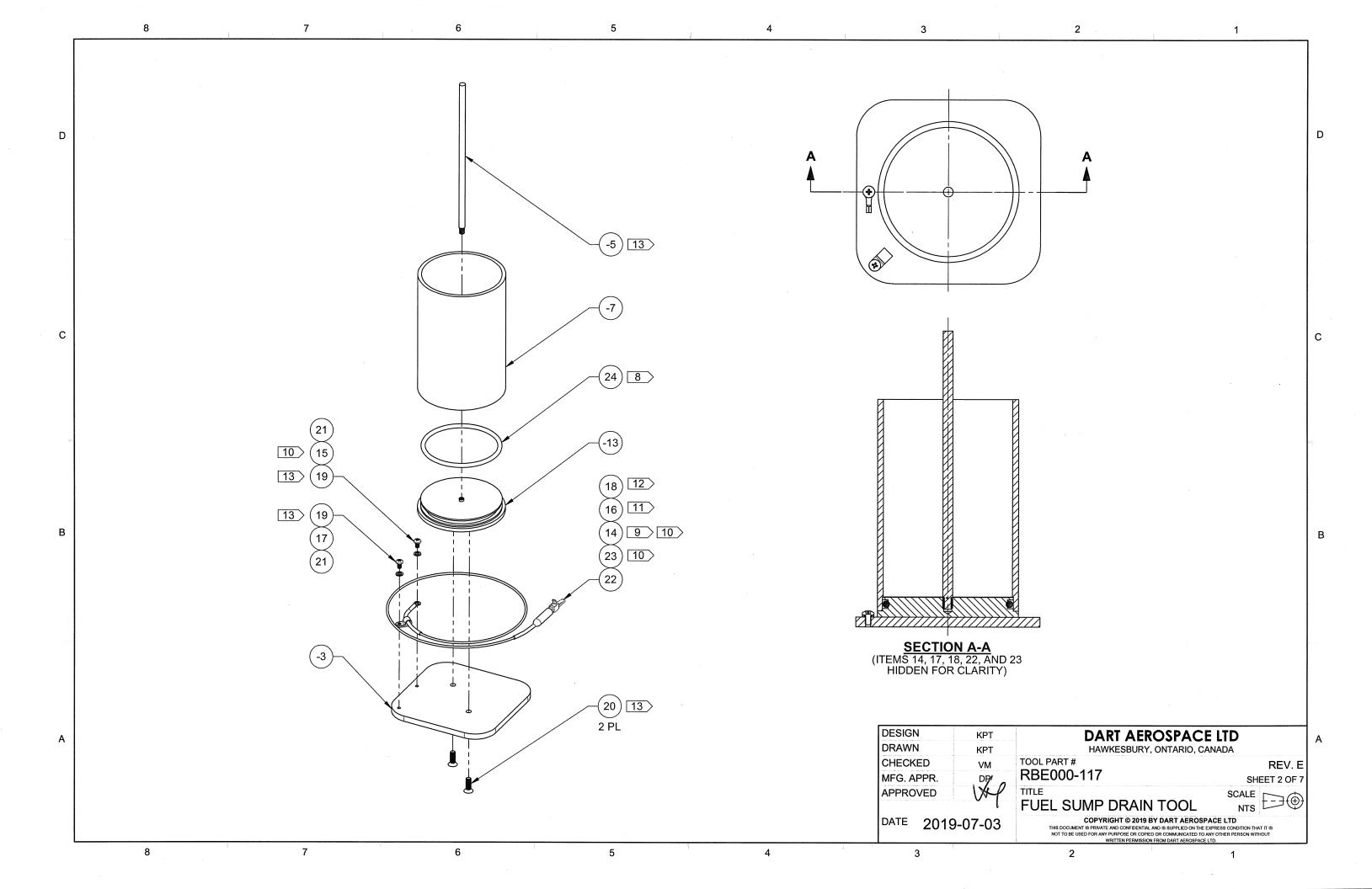
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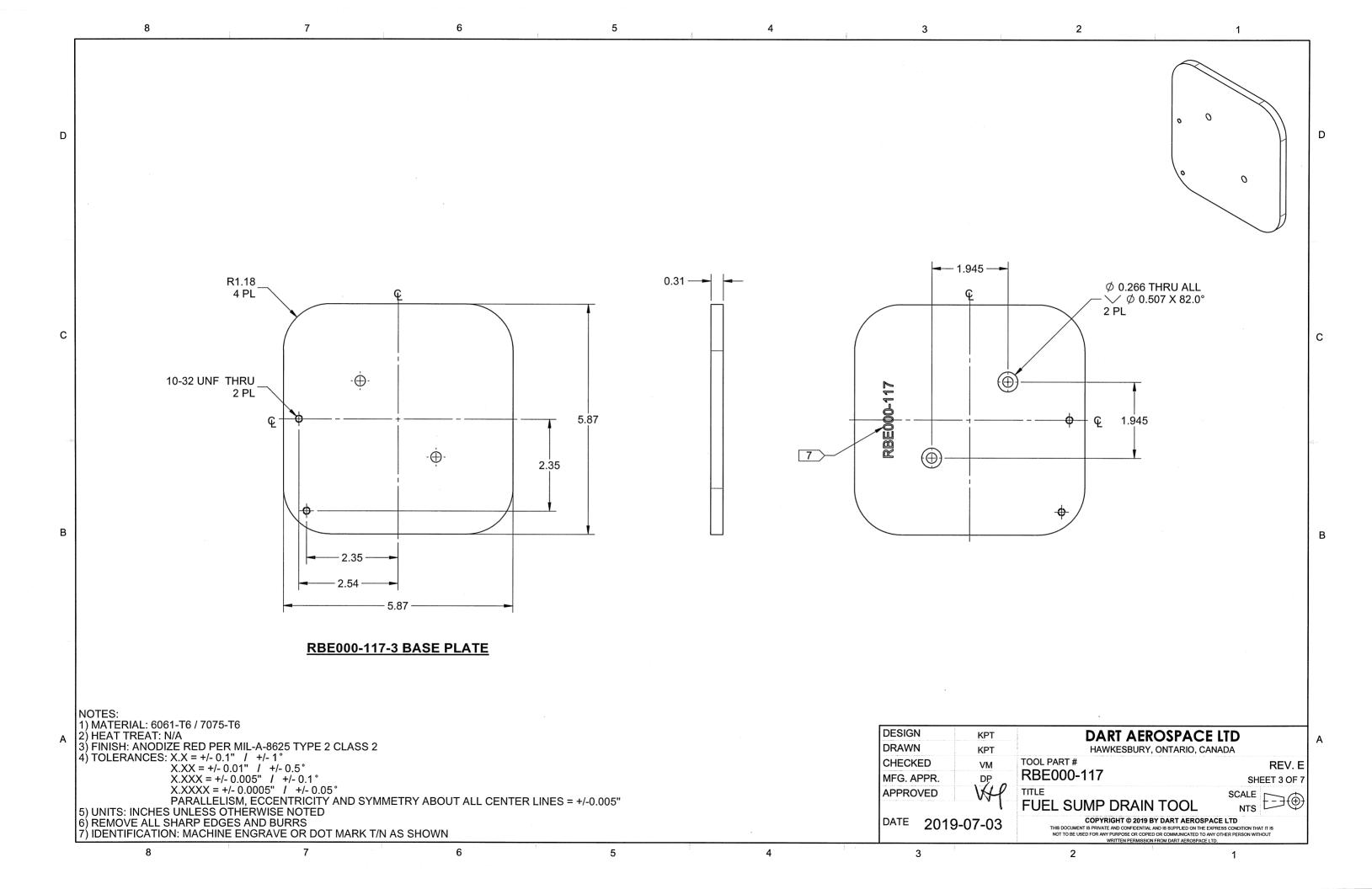
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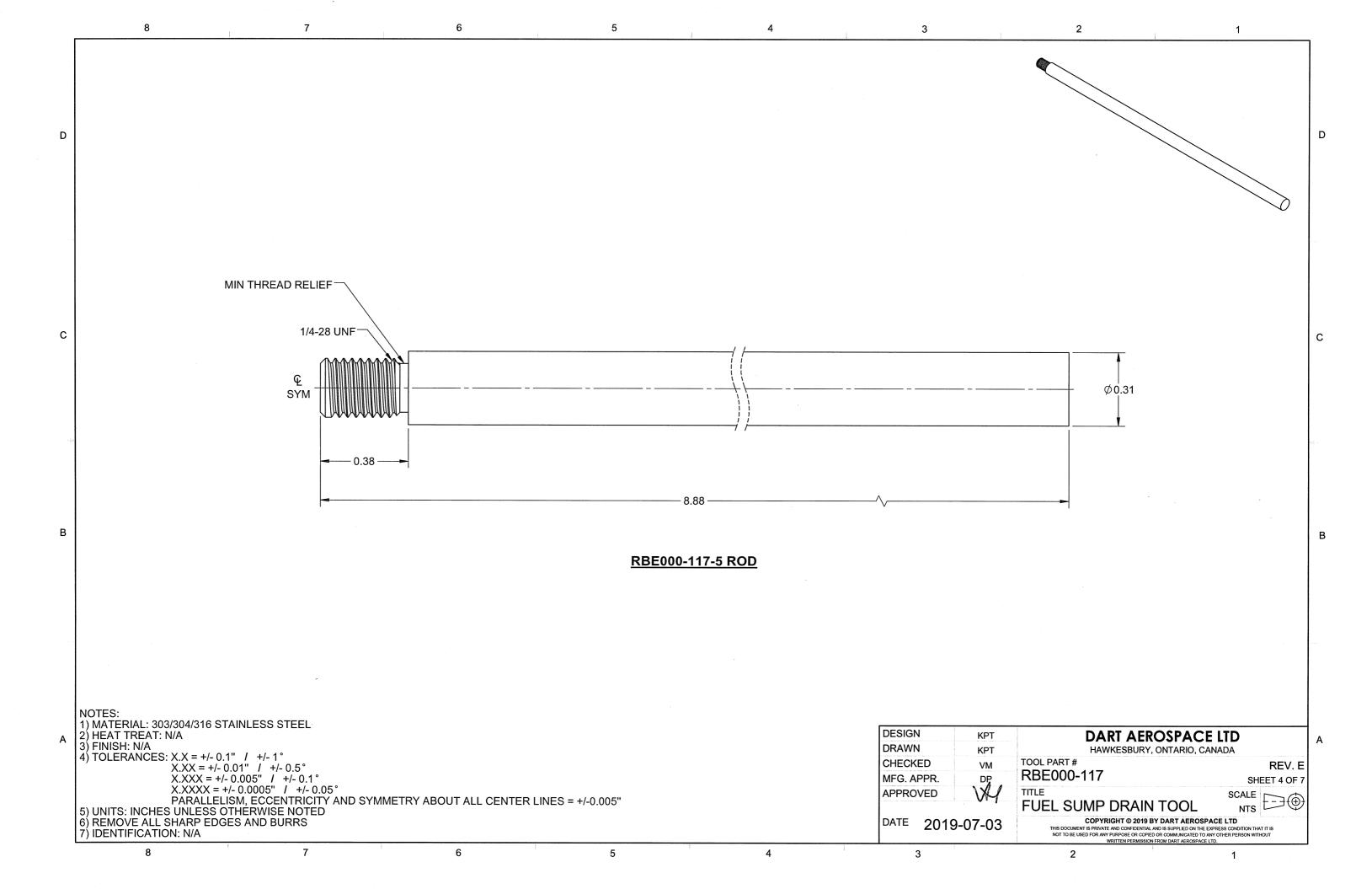
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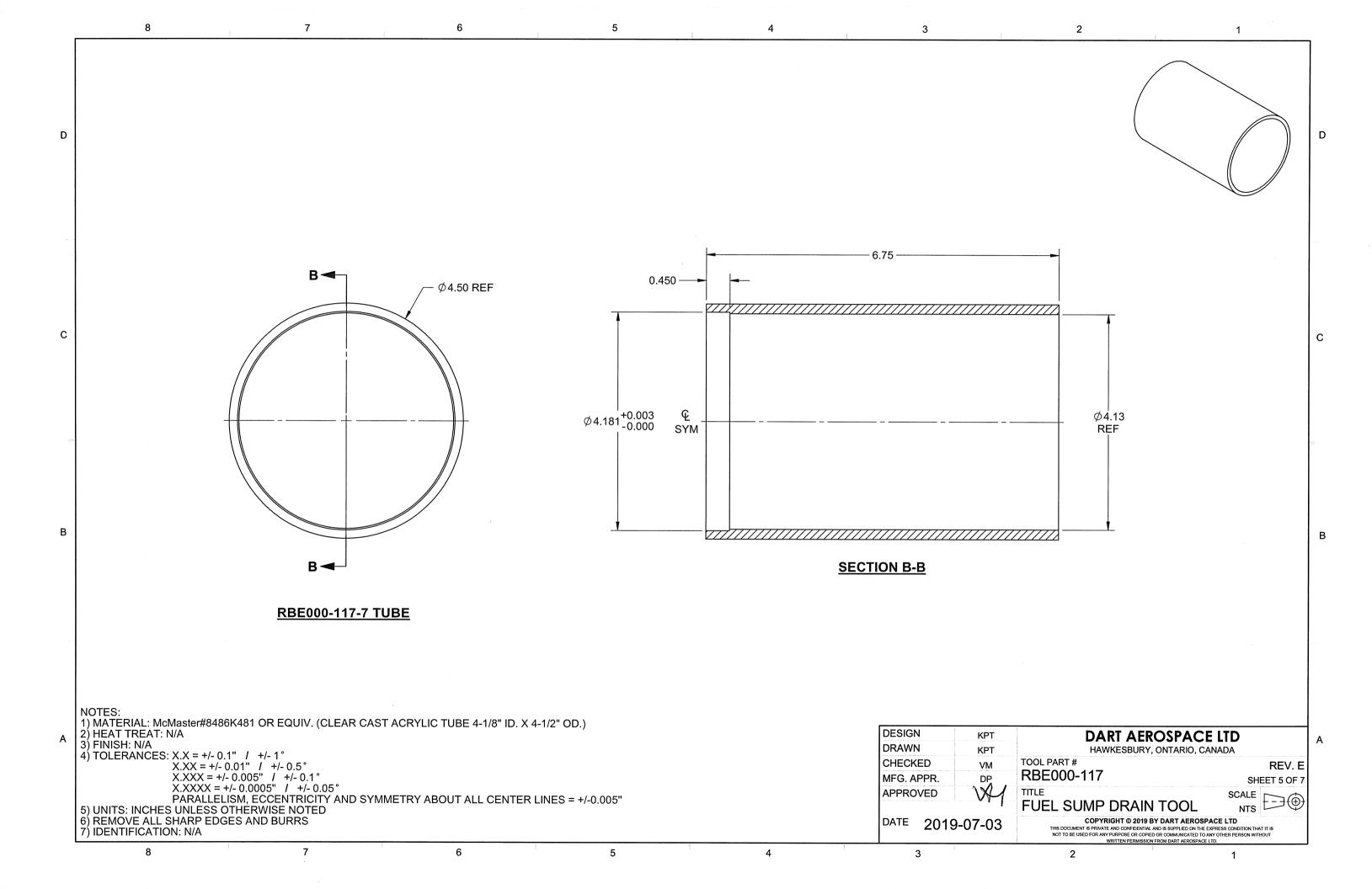
REV. E

SHEET 1 OF









7 3 QTY ITEM# PART# PART TITLE RBE000117-9 -9 PLATE McMaster#91732A232 OR EQUIV. 24 18-8 SS HELICAL INSERT 1/4"-28 X 3/8" LG. D RBE000-117-13 PLATE ASSEMBLY 1) MATERIAL: N/A 2) HEAT TREAT: N/A 3) FINISH: N/A DESIGN KPT DART AEROSPACE LTD DRAWN HAWKESBURY, ONTARIO, CANADA KPT TOOL PART # CHECKED VM REV. E RBE000-117 MFG. APPR. SHEET 6 OF 7 TITLE APPROVED SCALE NTS **FUEL SUMP DRAIN TOOL** 6) IDENTIFICATION: N/A 7) ASSEMBLE AS SHOWN DATE 2019-07-03 COPYRIGHT © 2019 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LID.

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